

**TRIGGERED FIELD DEVICE DATA COLLECTION IN A PROCESS CONTROL  
SYSTEM****ABSTRACT**

A diagnostic system and method for a field device in a process control apparatus is provided. At least one sensor is associated with the process control apparatus, and a computer is adapted to receive data from the sensor and to detect an occurrence of a predetermined process event. A memory device is operatively connected to the computer and adapted to store sensor data received by the computer at a time corresponding to the occurrence of the predetermined process event.